Text User Interface Frameworks

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1. Introduction

Text-based user interfaces (**TUI**), alternately **terminal user interfaces**, to reflect a dependence upon the properties of computer terminals and not just text, is a retronym parallel to the concept of graphical user interfaces (GUI).

2. NCurses

Doc Writer <christian.popescu@outlook.com> v 1.0, 2019-12-02 :toc:

3. NCurses library

The Ncurses (new curses) library is a free software emulation of curses in System V Release 4.0 (SVr4), and more. It uses **terminfo** format, supports pads and color and multiple highlights and forms characters and function-key mapping.

3.1. Links

GNU ncurses

3.1.1. Resources

Learning Ncurses

Ncurses Programming - Howto

The ncurses distribution is available at ncurses homepage

4. Working with Ncurses library

4.1. MINGW-64

- Set environment variables:

```
export TERMINFO="/usr/share/terminfo"
```

- Simple build command line

```
g++ <programname>.cc -lncurses -I/mingw64/include/ncurses
```

- Simple "Hello world!" program.

```
(Source: ncurses-6.1/doc/html/NCURSES-Programming-HOWTO.html#HELLOWORLD)
```

```cpp
#include <ncurses.h>
int main()
{
    initscr(); /* Start curses mode */
    printw("Hello World !!!"); /* Print Hello World*/
    refresh(); /* Print it on to the real screen */
    getch(); /* Wait for user input */
    endwin(); /* End curses mode */
    return 0;
}
```

5. References

Wikipedia